

# TRADITIONAL SEMICONDUCTOR FUSES

150/250/500/600/700 VAC • Very Fast-Acting • 1 – 1200 Amperes



| AMPERE RATINGS | SERIES & VOLTAGE RATINGS                                       |                                                                 |                            |                 |                 |                            |
|----------------|----------------------------------------------------------------|-----------------------------------------------------------------|----------------------------|-----------------|-----------------|----------------------------|
|                | L15S<br>150 VAC<br>150 VDC (1 – 60 A)<br>100 VDC (70 – 1000 A) | L25S<br>250 VAC<br>250 VDC (1 – 200 A)<br>200 VDC (225 – 800 A) | L50S<br>500 VAC<br>450 VDC | L60S<br>600 VAC | KLC‡<br>600 VAC | L70S<br>700 VAC<br>650 VDC |
| 1              | L15S 1                                                         | L25S 1                                                          | –                          | L60S 1          | KLC 1           | –                          |
| 2              | L15S 2                                                         | L25S 2                                                          | –                          | L60S 2          | KLC 2           | –                          |
| 3              | L15S 3                                                         | L25S 3                                                          | –                          | L60S 3          | KLC 3           | –                          |
| 4              | L15S 4                                                         | L25S 4                                                          | –                          | L60S 4          | KLC 4           | –                          |
| 5              | L15S 5                                                         | L25S 5                                                          | –                          | L60S 5          | KLC 5           | –                          |
| 6              | L15S 6                                                         | L25S 6                                                          | –                          | L60S 6          | KLC 6           | –                          |
| 7              | L15S 7                                                         | –                                                               | –                          | –               | KLC 7           | –                          |
| 8              | L15S 8                                                         | L25S 8                                                          | –                          | L60S 8          | KLC 8           | –                          |
| 9              | L15S 9                                                         | –                                                               | –                          | –               | –               | –                          |
| 10             | L15S 10                                                        | L25S 10                                                         | L50S 10                    | L60S 10         | KLC 10          | L70S 10                    |
| 12             | L15S 12                                                        | L25S 12                                                         | L50S 12                    | L60S 12         | KLC 12          | –                          |
| 15             | L15S 15                                                        | L25S 15                                                         | L50S 15                    | L60S 15         | KLC 15          | L70S 15                    |
| 17½            | –                                                              | –                                                               | –                          | L60S 17½        | KLC 17½         | –                          |
| 20             | L15S 20                                                        | L25S 20                                                         | L50S 20                    | L60S 20         | KLC 20          | L70S 20                    |
| 25             | L15S 25                                                        | L25S 25                                                         | L50S 25                    | L60S 25         | KLC 25          | L70S 25                    |
| 30             | L15S 30                                                        | L25S 30                                                         | L50S 30                    | L60S 30         | KLC 30          | L70S 30                    |
| 35             | L15S 35                                                        | L25S 35                                                         | L50S 35                    | L60S 35         | KLC 35          | L70S 35                    |
| 40             | L15S 40                                                        | L25S 40                                                         | L50S 40                    | L60S 40         | KLC 40          | L70S 40                    |
| 45             | L15S 45                                                        | L25S 45                                                         | –                          | L60S 45         | KLC 45          | –                          |
| 50             | L15S 50                                                        | L25S 50                                                         | L50S 50                    | L60S 50         | KLC 50          | L70S 50                    |
| 60             | L15S 60                                                        | L25S 60                                                         | L50S 60                    | L60S 60         | KLC 60          | L70S 60                    |
| 70             | L15S 70                                                        | L25S 70                                                         | L50S 70                    | L60S 70         | KLC 70          | L70S 70                    |
| 80             | L15S 80                                                        | L25S 80                                                         | L50S 80                    | L60S 80         | KLC 80          | L70S 80                    |
| 90             | L15S 90                                                        | L25S 90                                                         | L50S 90                    | L60S 90         | KLC 90          | L70S 90                    |
| 100            | L15S 100                                                       | L25S 100                                                        | L50S 100                   | L60S 100        | KLC 100         | L70S 100                   |
| 110            | –                                                              | –                                                               | –                          | –               | KLC 110         | –                          |
| 125            | L15S 125                                                       | L25S 125                                                        | L50S 125                   | L60S 125        | KLC 125         | L70S 125                   |
| 150            | L15S 150                                                       | L25S 150                                                        | L50S 150                   | L60S 150        | KLC 150         | L70S 150                   |
| 175            | –                                                              | L25S 175                                                        | L50S 175                   | L60S 175        | KLC 175         | L70S 175                   |
| 200            | L15S 200                                                       | L25S 200                                                        | L50S 200                   | L60S 200        | KLC 200         | L70S 200                   |
| 225            | –                                                              | L25S 225                                                        | L50S 225                   | L60S 225        | KLC 225         | L70S 225                   |
| 250            | L15S 250                                                       | L25S 250                                                        | L50S 250                   | L60S 250        | KLC 250         | L70S 250                   |
| 275            | –                                                              | L25S 275                                                        | L50S 275                   | –               | –               | –                          |
| 300            | L15S 300                                                       | L25S 300                                                        | L50S 300                   | L60S 300        | KLC 300         | L70S 300                   |
| 350            | L15S 350                                                       | L25S 350                                                        | L50S 350                   | L60S 350        | KLC 350         | L70S 350                   |
| 400            | L15S 400                                                       | L25S 400                                                        | L50S 400                   | L60S 400        | KLC 400         | L70S 400                   |
| 450            | L15S 450                                                       | L25S 450                                                        | L50S 450                   | L60S 450        | KLC 450         | L70S 450                   |
| 500            | L15S 500                                                       | L25S 500                                                        | L50S 500                   | L60S 500        | KLC 500         | L70S 500                   |
| 550            | –                                                              | –                                                               | L50S 550                   | –               | –               | –                          |
| 600            | L15S 600                                                       | L25S 600                                                        | L50S 600                   | L60S 600        | KLC 600         | L70S 600                   |
| 700            | –                                                              | L25S 700                                                        | L50S 700                   | L60S 700        | KLC 700         | L70S 700                   |
| 800            | L15S 800                                                       | L25S 800                                                        | L50S 800                   | L60S 800        | KLC 800         | L70S 800                   |
| 900            | –                                                              | –                                                               | LA50P9004                  | –               | –               | LA70P9004                  |
| 1000           | L15S 1000                                                      | –                                                               | LA50P10004                 | –               | –               | LA70P10004                 |
| 1200           | –                                                              | –                                                               | LA50P12004                 | –               | –               | LA70P12004                 |

‡ KLC series fuses are recommended for replacement use only.

## Specifications

### Voltage Ratings:

|       |                                                                          |
|-------|--------------------------------------------------------------------------|
| L15S: | 150 VAC/DC (1 – 60 A)<br>150 VAC (70 – 1000 A)<br>100 VDC (70 – 1000 A)  |
| L25S: | 250 VAC/DC (1 – 200 A)<br>250 VAC (225 – 800 A)<br>200 VDC (225 – 800 A) |
| L50S: | 500 VAC/450 VDC                                                          |
| L60S: | 600 VAC                                                                  |
| KLC:  | 600 VAC                                                                  |
| L70S: | 700 VAC/650 VDC                                                          |

L25S series fuses are Littelfuse Certified for DC ratings shown in Rating Table.

### Interrupting Rating:

|     |                                    |
|-----|------------------------------------|
| AC: | 200 kA rms<br>(L15S series 100 kA) |
| DC: | 20 kA                              |

### Ampere Range:

1 – 1200 A  
See Rating Table for ratings available in each series.

### Approvals:

UL Recognized (File No. E71611)  
CSA Recognized (File No. LR29862)

## Recommended Fuseholders

|                       |         |
|-----------------------|---------|
| 1LFS101/1LFS102 ..... | pg. 121 |
| LSCR001/LSCR002 ..... | pg. 120 |

## Web Resources

For additional information, visit:  
[www.littelfuse.com/semi](http://www.littelfuse.com/semi)

# TRADITIONAL SEMICONDUCTOR FUSES

150/250/500/600/700 VAC • Very Fast-Acting • 1-1000 Amperes



## L15S Series, 150 Volts AC

| AMPERE RATING | FIG. NO. | DIMENSIONS IN INCHES (mm) |              |              |              |              |              |              |            |
|---------------|----------|---------------------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
|               |          | A                         | B            | C            | D            | E            | F            | G            | H          |
| 1 – 30        | 1        | 1½<br>(38.1)              | —            | ⅜<br>(9.5)   | 1⅜<br>(10.3) | —            | —            | —            | —          |
| 31 – 60       | 1        | 2<br>(50.8)               | —            | ⅝<br>(15.9)  | 1⅞<br>(20.6) | —            | —            | —            | —          |
| 61 – 450      | 3        | 1⅝<br>(29.4)              | 1⅞<br>(47.6) | 2⅜<br>(55.6) | 2⅞<br>(67.5) | 1<br>(25.4)  | 4⅜<br>(17.1) | ⅝<br>(7.9)   | ⅜<br>(4.8) |
| 451 – 1000    | 3        | 1¼<br>(31.8)              | 1⅝<br>(49.2) | 2⅞<br>(65.1) | 3½<br>(88.9) | 1½<br>(38.1) | 1<br>(25.4)  | 1⅜<br>(10.3) | ¼<br>(6.4) |



## L25S Series, 250 Volts AC

| AMPERE RATING | FIG. NO. | DIMENSIONS IN INCHES (mm) |              |              |              |              |              |              |            |
|---------------|----------|---------------------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
|               |          | A                         | B            | C            | D            | E            | F            | G            | H          |
| 1 – 30        | 1        | 2<br>(50.8)               | —            | ½<br>(12.7)  | ⅞<br>(14.3)  | —            | —            | —            | —          |
| 31 – 60       | 2        | 1⅝<br>(41.3)              | 2¼<br>(57.2) | 2½<br>(63.5) | 3⅜<br>(81.0) | 1⅜<br>(20.6) | 2⅜<br>(18.3) | 1⅜<br>(8.7)  | ⅜<br>(3.2) |
| 61 – 200      | 3        | 1⅝<br>(41.3)              | 2⅝<br>(58.7) | 2⅞<br>(61.9) | 3⅞<br>(79.4) | 1⅞<br>(31.0) | 1<br>(25.4)  | ⅝<br>(7.9)   | ⅜<br>(4.8) |
| 201 – 700     | 3        | 1⅞<br>(40.5)              | 2⅞<br>(57.9) | 2⅞<br>(73.8) | 3⅞<br>(97.6) | 1½<br>(38.1) | 1<br>(25.4)  | 1⅜<br>(10.3) | ¼<br>(6.4) |
| 701 – 800     | 3        | 1⅞<br>(40.5)              | 2⅞<br>(57.9) | 2⅞<br>(73.8) | 3⅞<br>(97.6) | 2<br>(50.8)  | 1½<br>(38.1) | 1⅜<br>(10.3) | ¼<br>(6.4) |



## L50S Series, 500 Volts AC / 450 Volts DC

| AMPERE RATING | FIG. NO. | DIMENSIONS IN INCHES (mm) |               |               |               |              |              |              |            |
|---------------|----------|---------------------------|---------------|---------------|---------------|--------------|--------------|--------------|------------|
|               |          | A                         | B             | C             | D             | E            | F            | G            | H          |
| 10 – 30       | 1        | 2<br>(50.8)               | —             | ½<br>(12.7)   | ⅞<br>(14.3)   | —            | —            | —            | —          |
| 31 – 60       | 2        | 1⅝<br>(41.3)              | 2¼<br>(57.2)  | 2½<br>(63.5)  | 3⅜<br>(81.0)  | 1⅜<br>(20.6) | 2⅜<br>(18.3) | 1⅜<br>(8.7)  | ⅜<br>(3.2) |
| 61 – 100      | 3        | 2⅞<br>(54.0)              | 2⅞<br>(68.3)  | 3<br>(76.2)   | 3⅝<br>(92.1)  | 1<br>(25.4)  | ¾<br>(19.1)  | 1⅜<br>(8.7)  | ⅜<br>(3.2) |
| 101 – 200     | 3        | 2⅞<br>(54.0)              | 2⅞<br>(71.4)  | 2⅞<br>(74.6)  | 3⅝<br>(92.1)  | 1⅞<br>(31.0) | 1<br>(25.4)  | ⅝<br>(7.9)   | ⅜<br>(4.8) |
| 201 – 400     | 3        | 2⅞<br>(53.2)              | 2⅞<br>(70.6)  | 3⅞<br>(86.5)  | 4⅞<br>(110.3) | 1½<br>(38.1) | 1<br>(25.4)  | 1⅜<br>(10.3) | ¼<br>(6.4) |
| 401 – 600     | 3        | 2⅞<br>(56.4)              | 2⅞<br>(73.8)  | 3⅞<br>(89.7)  | 4⅞<br>(113.5) | 2<br>(50.8)  | 1½<br>(38.1) | 1⅜<br>(10.3) | ¼<br>(6.4) |
| 601 – 800     | 3        | 2⅞<br>(56.4)              | 4⅞<br>(108.7) | 4⅞<br>(117.5) | 6⅞<br>(164.3) | 2½<br>(63.5) | 2<br>(50.8)  | 1⅞<br>(13.5) | ⅜<br>(9.5) |

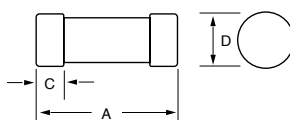


Fig. 1

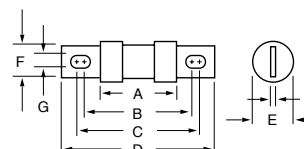


Fig. 2

# NORTH AMERICAN SEMICONDUCTOR FUSES

150/250/500/600/700 VAC • Very Fast-Acting • 1-1000 Amperes



## L60S Series, 600 Volts AC

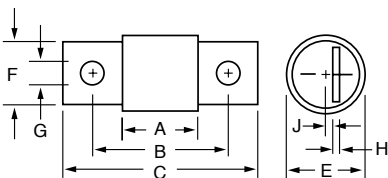
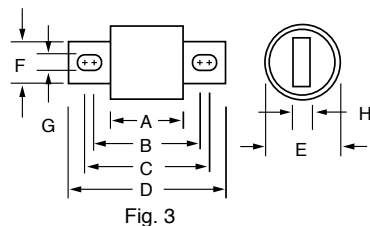


| AMPERE RATING | FIG. NO. | DIMENSIONS IN INCHES (mm)  |                             |                             |                             |                            |                           |                           |                         |
|---------------|----------|----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|---------------------------|---------------------------|-------------------------|
|               |          | A                          | B                           | C                           | D                           | E                          | F                         | G                         | H                       |
| 1 – 30        | 1        | 5<br>(127.0)               | —                           | $\frac{5}{8}$<br>(15.9)     | $\frac{13}{16}$<br>(20.6)   | —                          | —                         | —                         | —                       |
| 31 – 60       | 2        | $2\frac{25}{32}$<br>(70.6) | $3\frac{1}{16}$<br>(87.3)   | $3\frac{11}{16}$<br>(93.7)  | $4\frac{3}{8}$<br>(111.1)   | $\frac{13}{16}$<br>(20.6)  | $\frac{23}{32}$<br>(18.3) | $\frac{11}{32}$<br>(8.7)  | $\frac{1}{8}$<br>(3.2)  |
| 61 – 100      | 2        | $2\frac{29}{32}$<br>(73.8) | $3\frac{17}{32}$<br>(89.7)  | $3\frac{25}{32}$<br>(96.0)  | $4\frac{15}{32}$<br>(113.5) | $\frac{1}{16}$<br>(27.0)   | $\frac{23}{32}$<br>(18.3) | $\frac{11}{32}$<br>(8.7)  | $\frac{1}{8}$<br>(3.2)  |
| 101 – 200     | 2        | $2\frac{29}{32}$<br>(73.8) | $3\frac{9}{16}$<br>(90.5)   | $3\frac{3}{4}$<br>(95.3)    | $4\frac{13}{32}$<br>(111.9) | $\frac{15}{16}$<br>(33.3)  | 1<br>(25.4)               | $\frac{5}{16}$<br>(7.9)   | $\frac{3}{16}$<br>(4.8) |
| 201 – 400     | 2        | $2\frac{29}{32}$<br>(73.8) | $3\frac{31}{32}$<br>(100.8) | $4\frac{5}{32}$<br>(105.6)  | $5\frac{1}{8}$<br>(130.2)   | $1\frac{37}{64}$<br>(40.1) | 1<br>(25.4)               | $\frac{13}{32}$<br>(10.3) | $\frac{1}{4}$<br>(6.4)  |
| 401 – 600     | 2        | $2\frac{7}{8}$<br>(73.0)   | $3\frac{31}{32}$<br>(100.8) | $4\frac{9}{64}$<br>(105.2)  | $5\frac{1}{8}$<br>(130.2)   | $\frac{21}{16}$<br>(52.8)  | $\frac{1}{2}$<br>(38.1)   | $\frac{13}{32}$<br>(10.3) | $\frac{1}{4}$<br>(6.4)  |
| 601 – 800     | 2        | $3\frac{1}{32}$<br>(77.0)  | $5\frac{5}{32}$<br>(133.4)  | $5\frac{11}{32}$<br>(135.7) | $7\frac{1}{4}$<br>(184.2)   | $2\frac{1}{2}$<br>(63.5)   | 2<br>(50.8)               | $\frac{17}{32}$<br>(13.5) | $\frac{3}{8}$<br>(9.5)  |

## L70S Series, 700 Volts AC/600 Volts DC



| AMPERE RATING | FIG. NO. | DIMENSIONS IN INCHES (mm)  |                             |                             |                            |                           |                           |                           |                         |                         |
|---------------|----------|----------------------------|-----------------------------|-----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|-------------------------|-------------------------|
|               |          | A                          | B                           | C                           | D                          | E                         | F                         | G                         | H                       | J                       |
| 10 – 30       | 1        | 2<br>(50.8)                | —                           | $\frac{1}{2}$<br>(12.7)     | $\frac{9}{16}$<br>(14.3)   | —                         | —                         | —                         | —                       | —                       |
| 31 – 60       | 3        | $2\frac{7}{8}$<br>(73.0)   | $3\frac{1}{16}$<br>(87.3)   | $3\frac{25}{32}$<br>(96.0)  | $4\frac{3}{8}$<br>(111.1)  | 1<br>(25.4)               | $\frac{43}{64}$<br>(17.1) | $\frac{11}{32}$<br>(8.7)  | $\frac{1}{8}$<br>(3.2)  | —                       |
| 61 – 100      | 3        | $2\frac{7}{8}$<br>(73.0)   | $3\frac{9}{16}$<br>(90.5)   | $3\frac{11}{16}$<br>(93.7)  | $4\frac{3}{8}$<br>(111.1)  | $1\frac{1}{32}$<br>(31.0) | $\frac{29}{32}$<br>(22.9) | $\frac{5}{16}$<br>(7.9)   | $\frac{3}{16}$<br>(4.8) | —                       |
| 101 – 200     | 3        | $2\frac{27}{32}$<br>(72.2) | $3\frac{17}{32}$<br>(89.7)  | $4\frac{5}{32}$<br>(105.6)  | $5\frac{3}{32}$<br>(129.4) | $1\frac{1}{2}$<br>(38.1)  | 1<br>(25.4)               | $\frac{13}{32}$<br>(10.3) | $\frac{1}{4}$<br>(6.4)  | —                       |
| 201 – 400     | 3        | $2\frac{27}{32}$<br>(72.2) | $3\frac{17}{32}$<br>(89.7)  | $4\frac{5}{32}$<br>(105.6)  | $5\frac{3}{32}$<br>(129.4) | 2<br>(50.8)               | $1\frac{1}{2}$<br>(38.1)  | $\frac{13}{32}$<br>(10.3) | $\frac{1}{4}$<br>(6.4)  | —                       |
| 401 – 600     | 3        | $2\frac{27}{32}$<br>(72.2) | $4\frac{29}{32}$<br>(124.6) | $5\frac{1}{4}$<br>(133.4)   | $7\frac{3}{32}$<br>(180.2) | $2\frac{1}{2}$<br>(63.5)  | 2<br>(50.8)               | $\frac{17}{32}$<br>(13.5) | $\frac{3}{8}$<br>(9.5)  | —                       |
| 601 – 800     | 4        | $3\frac{5}{16}$<br>(84.1)  | $5\frac{5}{16}$<br>(134.9)  | $6\frac{13}{16}$<br>(173.0) | —                          | $2\frac{7}{8}$<br>(73.0)  | 2<br>(50.8)               | $\frac{5}{8}$<br>(15.9)   | $\frac{3}{8}$<br>(9.5)  | $\frac{5}{16}$<br>(7.9) |



## KLC Series, 600 Volts AC

| AMPERE RATING | FIG. NO. | DIMENSIONS IN INCHES (mm)  |                             |                             |                            |                           |                           |                           |
|---------------|----------|----------------------------|-----------------------------|-----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|
|               |          | A                          | B                           | C                           | D                          | E                         | F                         | H                         |
| 1 – 30        | 2        | $1\frac{1}{8}$<br>(47.6)   | $2\frac{1}{2}$<br>(63.5)    | —                           | $2\frac{7}{8}$<br>(73.0)   | $\frac{9}{16}$<br>(14.3)  | $\frac{13}{32}$<br>(10.3) | $\frac{3}{64}$<br>(1.2)   |
| 31 – 60       | 2        | $2\frac{3}{4}$<br>(69.9)   | $3\frac{3}{8}$<br>(85.7)    | $3\frac{5}{8}$<br>(92.1)    | $4\frac{5}{16}$<br>(109.5) | $\frac{13}{16}$<br>(20.6) | $\frac{23}{32}$<br>(18.3) | $\frac{1}{8}$<br>(3.2)    |
| 61 – 100      | 3        | $2\frac{7}{8}$<br>(73.0)   | $3\frac{21}{32}$<br>(92.9)  | $4\frac{1}{16}$<br>(103.2)  | 5<br>(127.0)               | 1<br>(25.4)               | $\frac{3}{4}$<br>(19.1)   | $\frac{1}{8}$<br>(3.2)    |
| 101 – 200     | 3        | $2\frac{27}{32}$<br>(72.2) | $3\frac{17}{32}$<br>(89.7)  | $4\frac{1}{8}$<br>(111.1)   | $5\frac{3}{32}$<br>(129.4) | $1\frac{1}{2}$<br>(38.1)  | 1<br>(25.4)               | $\frac{13}{32}$<br>(10.3) |
| 201 – 400     | 3        | $2\frac{27}{32}$<br>(72.2) | $4\frac{21}{32}$<br>(118.3) | $4\frac{27}{32}$<br>(123.0) | $6\frac{1}{4}$<br>(158.8)  | 2<br>(50.8)               | $1\frac{5}{8}$<br>(41.3)  | $\frac{9}{16}$<br>(14.3)  |
| 401 – 800     | 3        | $2\frac{27}{32}$<br>(72.2) | $4\frac{21}{32}$<br>(118.3) | $5\frac{11}{32}$<br>(135.7) | $6\frac{1}{4}$<br>(158.8)  | $2\frac{1}{2}$<br>(63.5)  | 2<br>(50.8)               | $\frac{9}{16}$<br>(14.3)  |

# ALTERNATE DIMENSION SEMICONDUCTOR FUSES

150 VAC • Very Fast-Acting • 1-6000 Amperes



## LA15QS Series

| AMPERE RATING | LITTELFUSE CATALOG NUMBER | MOUNTING TYPE | MAXIMUM CLEARING I <sup>2</sup> t @150 VAC (A <sup>2</sup> S x 10 <sup>3</sup> ) | WATTS LOSS @ RATED CURRENT (W) |
|---------------|---------------------------|---------------|----------------------------------------------------------------------------------|--------------------------------|
| 1             | LA15QS1-2                 | 2             | 0.0002                                                                           | 0.68                           |
| 2             | LA15QS2-2                 | 2             | 0.001                                                                            | 1.3                            |
| 3             | LA15QS3-2                 | 2             | 0.003                                                                            | 1.7                            |
| 4             | LA15QS4-2                 | 2             | 0.007                                                                            | 2.1                            |
| 5             | LA15QS5-2                 | 2             | 0.012                                                                            | 2.8                            |
| 6             | LA15QS6-2                 | 2             | 0.022                                                                            | 3.1                            |
| 7             | LA15QS7-2                 | 2             | 0.011                                                                            | 2.2                            |
| 8             | LA15QS8-2                 | 2             | 0.015                                                                            | 2.5                            |
| 10            | LA15QS10-2                | 2             | 0.019                                                                            | 2.6                            |
| 12            | LA15QS12-2                | 2             | 0.030                                                                            | 3                              |
| 15            | LA15QS15-2                | 2             | 0.042                                                                            | 3                              |
| 20            | LA15QS20-2                | 2             | 0.072                                                                            | 4                              |
| 25            | LA15QS25-2                | 2             | 0.14                                                                             | 5.2                            |
| 30            | LA15QS30-2                | 2             | 0.25                                                                             | 5.6                            |
| 35            | LA15QS35-1                | 1             | 0.21                                                                             | 9                              |
| 40            | LA15QS40-1                | 1             | 0.28                                                                             | 10                             |
| 40            | LA15QS40-4TI              | 4TI           | 0.39                                                                             | 3.1                            |
| 45            | LA15QS45-1                | 1             | 0.34                                                                             | 12                             |
| 50            | LA15QS50-1                | 1             | 0.47                                                                             | 13                             |
| 50            | LA15QS50-4                | 4             | 0.64                                                                             | 4                              |
| 55            | LA15QS55-1                | 1             | Contact Factory                                                                  | Contact Factory                |
| 60            | LA15QS60-1                | 1             | 0.94                                                                             | 14                             |
| 70            | LA15QS70-4                | 4             | 2                                                                                | 5.6                            |
| 70            | LA15QS70-4TI              | 4TI           | 2                                                                                | 5.6                            |
| 80            | LA15QS80-4                | 4             | 2.5                                                                              | 8                              |
| 80            | LA15QS80-4TI              | 4TI           | 2.5                                                                              | 8                              |
| 90            | LA15QS90-4                | 4             | 3.1                                                                              | 9                              |
| 100           | LA15QS100-4               | 4             | 3.6                                                                              | 10                             |
| 100           | LA15QS100-4TI             | 4TI           | 3.6                                                                              | 10                             |
| 130           | LA15QS130-4               | 4             | 5.3                                                                              | 14                             |
| 130           | LA15QS130-4TI             | 4TI           | 5.3                                                                              | 14                             |
| 150           | LA15QS150-4               | 4             | 6.8                                                                              | 16                             |
| 150           | LA15QS150-4IL             | 4IL           | 6.8                                                                              | 16                             |
| 150           | LA15QS150-4TI             | 4TI           | 6.8                                                                              | 16                             |
| 200           | LA15QS200-4               | 4             | 9                                                                                | 22                             |
| 200           | LA15QS200-4IL             | 4IL           | 9                                                                                | 22                             |

| AMPERE RATING | LITTELFUSE CATALOG NUMBER | MOUNTING TYPE | MAXIMUM CLEARING I <sup>2</sup> t @150 VAC (A <sup>2</sup> S x 10 <sup>3</sup> ) | WATTS LOSS @ RATED CURRENT (W) |
|---------------|---------------------------|---------------|----------------------------------------------------------------------------------|--------------------------------|
| 250           | LA15QS250-4               | 4             | 15                                                                               | 22                             |
| 250           | LA15QS250-4TI             | 4TI           | 15                                                                               | 27                             |
| 300           | LA15QS300-4               | 4             | 22                                                                               | 33                             |
| 300           | LA15QS300-4IL             | 4IL           | 22                                                                               | 33                             |
| 300           | LA15QS300-4TL             | 4TI           | 22                                                                               | 33                             |
| 350           | LA15QS350-4               | 4             | 32                                                                               | 40                             |
| 350           | LA15QS350-4TI             | 4TI           | 32                                                                               | 40                             |
| 400           | LA15QS400-4               | 4             | 40                                                                               | 45                             |
| 400           | LA15QS400-4IL             | 4IL           | 40                                                                               | 45                             |
| 400           | LA15QS400-4TI             | 4TI           | 40                                                                               | 45                             |
| 450           | LA15QS450-4               | 4             | 50                                                                               | 50                             |
| 450           | LA15QS450-4IL             | 4IL           | 50                                                                               | 50                             |
| 500           | LA15QS500-4               | 4             | 90                                                                               | 30                             |
| 500           | LA15QS500-4IL             | 4IL           | 90                                                                               | 30                             |
| 600           | LA15QS600-4               | 4             | 130                                                                              | 35                             |
| 600           | LA15QS600-4IL             | 4IL           | 130                                                                              | 35                             |
| 800           | LA15QS800-4               | 4             | 290                                                                              | 57                             |
| 1000          | LA15QS1000-4              | 4             | 520                                                                              | 75                             |
| 1000          | LA15QS1000-4IL            | 4IL           | 520                                                                              | 75                             |
| 1000          | LA15QS1000-4TI            | 4TI           | 520                                                                              | 75                             |
| 1000          | LA15QS1000-128            | 128           | 540                                                                              | 88                             |
| 1000          | LA15QS1000-128IL          | 128IL         | 540                                                                              | 88                             |
| 1200          | LA15QS1200-128            | 128           | 680                                                                              | 100                            |
| 1200          | LA15QS1200-128IL          | 128IL         | 680                                                                              | 100                            |
| 1500          | LA15QS1500-128            | 128           | 1200                                                                             | 130                            |
| 1500          | LA15QS1500-128IL          | 128IL         | 1200                                                                             | 130                            |
| 2000          | LA15QS2000-128            | 128           | 1900                                                                             | 165                            |
| 2000          | LA15QS2000-128IL          | 128IL         | 1900                                                                             | 165                            |
| 2500          | LA15QS2500-128            | 128           | 3200                                                                             | 195                            |
| 2500          | LA15QS2500-128IL          | 128IL         | 3200                                                                             | 195                            |
| 3000          | LA15QS3000-128            | 128           | 4800                                                                             | 240                            |
| 3000          | LA15QS3000-128IL          | 128IL         | 4800                                                                             | 240                            |
| 3500          | LA15QS3500-128            | 128           | 6500                                                                             | 260                            |
| 4000          | LA15QS4000-128            | 128           | 8500                                                                             | 270                            |
| 4000          | LA15QS4000-128IL          | 128IL         | 8500                                                                             | 270                            |
| 5000          | LA15QS5000-128            | 128           | Contact Factory                                                                  | Contact Factory                |
| 6000          | LA15QS6000-128            | 128           | Contact Factory                                                                  | Contact Factory                |

## Specifications

**Voltage Rating:** AC: 150 V  
DC: 150 V  
**Interrupting Rating:** 100 kA  
**Ampere Range:** 1 – 6000 A  
**Approvals:** UL Recognized

## Web Resources

TC Curves, downloadable CAD drawings and other technical information: [www.littelfuse.com/la15qs](http://www.littelfuse.com/la15qs)

## Dimensions

Figure 1

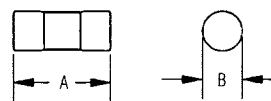


Figure 2

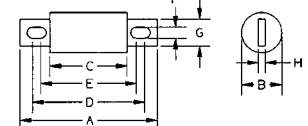


Figure 3

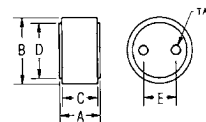


Figure 4

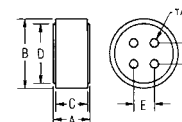
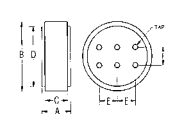


Figure 5



Dimensions for reference only.

| AMPERE RATINGS | MOUNTING TYPE | FIGURE NO. | DIMENSIONS IN INCHES (mm IN PARENTHESES) |             |             |             |             |             |             |            | TAP             |
|----------------|---------------|------------|------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-----------------|
|                |               |            | A                                        | B           | C           | D           | E           | F           | G           | H          |                 |
| 1 – 30         | 2             | 1          | 1.50 (38.1)                              | 0.41 (10.4) | –           | –           | –           | –           | –           | –          | –               |
| 35 – 60        | 1             | 1          | 2.00 (50.8)                              | 0.81 (20.6) | –           | –           | –           | –           | –           | –          | –               |
| 40 – 450       | 4, 4TI*, 4IL* | 2          | 2.66 (67.6)                              | 1.00 (25.4) | 1.16 (29.5) | 2.19 (55.6) | 1.91 (48.5) | 0.31 (7.9)  | 0.88 (22.4) | 0.19 (4.8) | –               |
| 500 – 1000     | 4, 4TI*, 4IL* | 2          | 3.50 (88.9)                              | 1.50 (38.1) | 1.25 (31.8) | 2.56 (65.0) | 1.94 (49.3) | 0.41 (10.4) | 1.00 (25.4) | 0.25 (6.4) | –               |
| 750 – 2000     | 128, 128IL*   | 3          | 1.88 (47.9)                              | 2.00 (50.8) | 1.63 (41.4) | 1.75 (44.5) | 1.00 (25.4) | –           | –           | –          | 3/8-24-1/2 deep |
| 2500 – 3000    | 128, 128IL*   | 3          | 1.88 (47.9)                              | 3.00 (76.2) | 1.63 (41.4) | 2.50 (63.5) | 1.50 (38.1) | –           | –           | –          | 1/2-20-1/2 deep |
| 3500 – 4000    | 128, 128IL*   | 4          | 1.88 (47.9)                              | 3.50 (88.9) | 1.63 (41.4) | 3.00 (76.2) | 1.06 (27.0) | 1.06 (27.0) | –           | –          | 1/2-20-1/2 deep |
| 5000 – 6000    | 128           | 5          | 2.38 (60.5)                              | 5.75 (146)  | 1.88 (47.7) | 5.00 (127)  | 1.50 (38.1) | 1.50 (38.1) | –           | –          | 1/2-20-1/2 deep |

\*Optional Trigger Actuator (IL). Optional Trigger Indicator (TI) see web for dimensions.

# ALTERNATE DIMENSION SEMICONDUCTOR FUSES

300 VAC • Very Fast-Acting • 35-4500 Amperes



## LA30QS Series

| AMPERE RATING | LITTELFUSE CATALOG NUMBER | MOUNTING TYPE | MAXIMUM CLEARING I <sup>2</sup> T @300 VAC (A <sup>2</sup> S X 10 <sup>3</sup> ) | WATTS LOSS @ RATED CURRENT (W) |
|---------------|---------------------------|---------------|----------------------------------------------------------------------------------|--------------------------------|
| 35            | LA30QS35-4                | 4             | 0.9                                                                              | 6.4                            |
| 40            | LA30QS40-4                | 4             | 1.2                                                                              | 7                              |
| 50            | LA30QS50-4                | 4             | 2                                                                                | 9.9                            |
| 60            | LA30QS60-4                | 4             | 2.7                                                                              | 11.6                           |
| 70            | LA30QS70-4                | 4             | 1.6                                                                              | 11                             |
| 80            | LA30QS80-4                | 4             | 2.6                                                                              | 11                             |
| 90            | LA30QS90-4                | 4             | 3.2                                                                              | 13                             |
| 100           | LA30QS100-4               | 4             | 4.1                                                                              | 13                             |
| 100           | LA30QS100-4TI             | 4TI           | 4.1                                                                              | 13                             |
| 125           | LA30QS125-4               | 4             | 6.3                                                                              | 16                             |
| 130           | LA30QS130-4               | 4             | 6.3                                                                              | 16                             |
| 150           | LA30QS150-4               | 4             | 9.3                                                                              | 19                             |
| 150           | LA30QS150-4TI             | 4TI           | 9.3                                                                              | 19                             |
| 175           | LA30QS175-4               | 4             | 10                                                                               | 27                             |
| 200           | LA30QS200-4               | 4             | 15                                                                               | 30                             |
| 200           | LA30QS200-4TI             | 4TI           | 15                                                                               | 30                             |
| 225           | LA30QS225-4               | 4             | 22                                                                               | 33                             |
| 250           | LA30QS250-4               | 4             | 25                                                                               | 41                             |
| 250           | LA30QS250-4TI             | 4TI           | 25                                                                               | 41                             |
| 300           | LA30QS300-4               | 4             | 37                                                                               | 47                             |
| 300           | LA30QS300-4TI             | 4TI           | 37                                                                               | 47                             |
| 350           | LA30QS350-4               | 4             | 62                                                                               | 49                             |
| 400           | LA30QS400-4               | 4             | 83                                                                               | 56                             |
| 400           | LA30QS400-4IL             | 4IL           | 83                                                                               | 56                             |
| 400           | LA30QS400-4TI             | 4TI           | 83                                                                               | 56                             |
| 450           | LA30QS450-4               | 4             | 130                                                                              | 53                             |

| AMPERE RATING | LITTELFUSE CATALOG NUMBER | MOUNTING TYPE | MAXIMUM CLEARING I <sup>2</sup> T @300 VAC (A <sup>2</sup> S X 10 <sup>3</sup> ) | WATTS LOSS @ RATED CURRENT (W) |
|---------------|---------------------------|---------------|----------------------------------------------------------------------------------|--------------------------------|
| 500           | LA30QS500-4               | 4             | 160                                                                              | 59                             |
| 550           | LA30QS550-4               | 4             | 190                                                                              | 65                             |
| 600           | LA30QS600-4               | 4             | 230                                                                              | 69                             |
| 600           | LA30QS600-4TI             | 4TI           | 230                                                                              | 69                             |
| 600           | LA30QS600-4IL             | 4IL           | 230                                                                              | 69                             |
| 700           | LA30QS700-4               | 4             | 260                                                                              | 90                             |
| 700           | LA30QS700-128             | 128           | 260                                                                              | 73                             |
| 800           | LA30QS800-4               | 4             | 330                                                                              | 108                            |
| 800           | LA30QS800-4IL             | 4IL           | 330                                                                              | 108                            |
| 800           | LA30QS800-128             | 128           | 330                                                                              | 84                             |
| 1000          | LA30QS1000-128            | 128           | 460                                                                              | 105                            |
| 1000          | LA30QS1000-128IL          | 128IL         | 460                                                                              | 105                            |
| 1200          | LA30QS1200-128            | 128           | 880                                                                              | 110                            |
| 1500          | LA30QS1500-128            | 128           | 1400                                                                             | 140                            |
| 1500          | LA30QS1500-128IL          | 128IL         | 1400                                                                             | 140                            |
| 1600          | LA30QS1600-128            | 128           | 1690                                                                             | 150                            |
| 2000          | LA30QS2000-128            | 128           | 2600                                                                             | 190                            |
| 2000          | LA30QS2000-128IL          | 128IL         | 2600                                                                             | 190                            |
| 2500          | LA30QS2500-128            | 128           | 4000                                                                             | 230                            |
| 2500          | LA30QS2500-128IL          | 128IL         | 4000                                                                             | 230                            |
| 3000          | LA30QS3000-128            | 128           | 4700                                                                             | 340                            |
| 3500          | LA30QS3500-128            | 128           | 6500                                                                             | 380                            |
| 3500          | LA30QS3500-128IL          | 128IL         | 6500                                                                             | 380                            |
| 4000          | LA30QS4000-128            | 128           | 8600                                                                             | 450                            |
| 4500          | LA30QS4500-128            | 128           | 11000                                                                            | 500                            |

## Specifications

|                             |                        |
|-----------------------------|------------------------|
| <b>Voltage Rating:</b>      | AC: 300 V<br>DC: 300 V |
| <b>Interrupting Rating:</b> | 200 kA                 |
| <b>Ampere Range:</b>        | 35 – 4500 A            |
| <b>Approvals:</b>           | UL Recognized          |

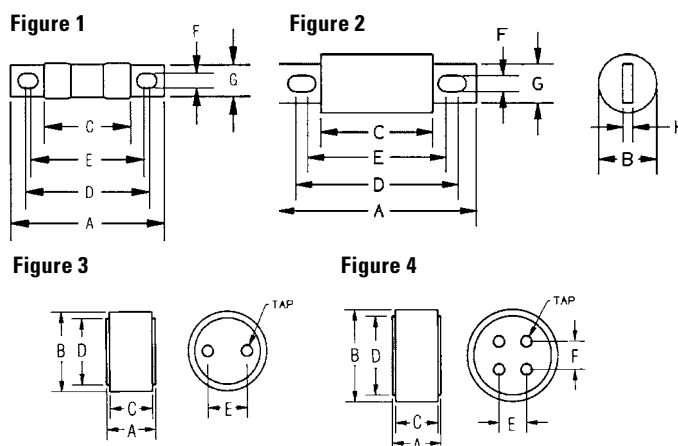
## Web Resources

TC Curves, downloadable CAD drawings and other technical information: [www.littelfuse.com/la30qs](http://www.littelfuse.com/la30qs)

## Dimensions

| AMPERE RATING | MOUNTING TYPE | FIGURE NO. | DIMENSIONS IN INCHES (mm IN PARENTHESES) |             |             |             |             |             |             |            | TAP             |
|---------------|---------------|------------|------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-----------------|
|               |               |            | A                                        | B           | C           | D           | E           | F           | G           | H          |                 |
| 35 – 60       | 4             | 1          | 3.19 (81.0)                              | 0.81 (20.6) | 1.63 (41.4) | 2.50 (63.5) | 2.25 (57.5) | 0.34 (8.6)  | 0.72 (18.3) | 0.13 (3.3) | –               |
| 70 – 200      | 4             | 2          | 3.13 (79.5)                              | 1.22 (31.0) | 1.63 (41.4) | 2.44 (62.0) | 2.31 (58.7) | 0.31 (7.9)  | 1.00 (25.4) | 0.19 (4.8) | –               |
| 225 – 700     | 4, 4IL*       | 2          | 3.84 (97.5)                              | 1.50 (38.1) | 1.59 (40.1) | 2.91 (73.9) | 2.28 (57.9) | 0.41 (10.4) | 1.00 (25.4) | 0.25 (6.4) | –               |
| 700 – 1200    | 128           | 3          | 2.59 (65.8)                              | 3.00 (76.2) | 2.34 (59.4) | 2.50 (63.5) | 1.50 (38.1) | –           | –           | –          | 3/8-24-1/2 deep |
| 1500 – 2500   | 128, 128IL*   | 4          | 2.59 (65.8)                              | 3.50 (88.9) | 2.34 (59.4) | 3.00 (76.2) | 1.50 (38.1) | 1.50 (38.1) | –           | –          | 3/8-24-1/2 deep |
| 3000 – 4500   | 128, 128IL*   | 4          | 2.59 (65.8)                              | 4.50 (114)  | 2.34 (59.4) | 3.75 (95.3) | 1.50 (38.1) | 1.50 (38.1) | –           | –          | 1/2-20-1/2 deep |

\*Optional Trigger Actuator (IL). Optional Trigger Indicator (TI) see web for dimensions.



Dimensions for reference only.

# ALTERNATE DIMENSION SEMICONDUCTOR FUSES

500 VAC • Very Fast-Acting • 35-1200 Amperes



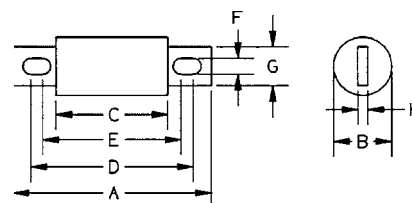
## LA50QS Series

| AMPERE RATING | LITTELFUSE CATALOG NUMBER | MOUNTING TYPE | MAXIMUM CLEARING I <sup>2</sup> T @500 VAC (A <sup>2</sup> S X 10 <sup>3</sup> ) | WATTS LOSS @ RATED CURRENT (W) |
|---------------|---------------------------|---------------|----------------------------------------------------------------------------------|--------------------------------|
| 35            | LA50QS35-4                | 4             | 0.56                                                                             | 6                              |
| 40            | LA50QS40-4                | 4             | 0.69                                                                             | 7                              |
| 50            | LA50QS50-4                | 4             | 1.1                                                                              | 8                              |
| 60            | LA50QS60-4                | 4             | 1.8                                                                              | 10                             |
| 70            | LA50QS70-4                | 4             | 1.9                                                                              | 12                             |
| 80            | LA50QS80-4                | 4             | 2.6                                                                              | 14                             |
| 90            | LA50QS90-4                | 4             | 3.6                                                                              | 15                             |
| 100           | LA50QS100-4               | 4             | 4.4                                                                              | 17                             |
| 125           | LA50QS125-4               | 4             | 5.6                                                                              | 21                             |
| 150           | LA50QS150-4               | 4             | 9                                                                                | 25                             |
| 175           | LA50QS175-4               | 4             | 15                                                                               | 29                             |
| 200           | LA50QS200-4               | 4             | 20                                                                               | 33                             |
| 225           | LA50QS225-4               | 4             | 25                                                                               | 37                             |

| AMPERE RATING | LITTELFUSE CATALOG NUMBER | MOUNTING TYPE | MAXIMUM CLEARING I <sup>2</sup> T @500 VAC (A <sup>2</sup> S X 10 <sup>3</sup> ) | WATTS LOSS @ RATED CURRENT (W) |
|---------------|---------------------------|---------------|----------------------------------------------------------------------------------|--------------------------------|
| 250           | LA50QS250-4               | 4             | 29                                                                               | 41                             |
| 300           | LA50QS300-4               | 4             | 55                                                                               | 49                             |
| 350           | LA50QS350-4               | 4             | 88                                                                               | 57                             |
| 400           | LA50QS400-4               | 4             | 98                                                                               | 65                             |
| 450           | LA50QS450-4               | 4             | 130                                                                              | 69                             |
| 500           | LA50QS500-4               | 4             | 160                                                                              | 77                             |
| 600           | LA50QS600-4               | 4             | 220                                                                              | 92                             |
| 700           | LA50QS700-4               | 4             | 270                                                                              | 110                            |
| 800           | LA50QS800-4               | 4             | 360                                                                              | 130                            |
| 900           | LA50QS900-4               | 4             | 500                                                                              | 140                            |
| 1000          | LA50QS1000-4              | 4             | 560                                                                              | 160                            |
| 1200          | LA50QS1200-4              | 4             | 930                                                                              | 175                            |

## Specifications

|                             |                                |
|-----------------------------|--------------------------------|
| <b>Voltage Rating:</b>      | AC: 500 V<br>DC: 500 V         |
| <b>Interrupting Rating:</b> | AC: 200 kA<br>DC: 100 kA       |
| <b>Ampere Range:</b>        | 35 – 1200 A                    |
| <b>Approvals:</b>           | UL Recognized<br>CSA Certified |



## Web Resources

TC Curves, downloadable CAD drawings and other technical information: [www.littelfuse.com/la50qs](http://www.littelfuse.com/la50qs)

## Dimensions

Dimensions for reference only.

| AMPERE RATING | MOUNTING TYPE | DIMENSIONS IN INCHES (mm) |                |                |                 |                 |                |                |                |
|---------------|---------------|---------------------------|----------------|----------------|-----------------|-----------------|----------------|----------------|----------------|
|               |               | A                         | B              | C              | D               | E               | F              | G              | H              |
| 35 – 100      | 4             | 3.63<br>(92.2)            | 1.00<br>(25.4) | 2.13<br>(54.1) | 2.94<br>(74.7)  | 2.75<br>(69.9)  | 0.31<br>(7.9)  | 0.75<br>(19.1) | 0.13<br>(3.3)  |
| 125 – 200     | 4             | 3.63<br>(92.2)            | 1.22<br>(31.0) | 2.13<br>(54.1) | 2.94<br>(74.7)  | 2.81<br>(71.4)  | 0.31<br>(7.9)  | 1.00<br>(25.4) | 0.19<br>(4.8)  |
| 225 – 400     | 4             | 4.34<br>(110)             | 1.50<br>(38.1) | 2.09<br>(53.1) | 3.41<br>(86.6)  | 2.78<br>(70.6)  | 0.41<br>(10.4) | 1.00<br>(25.4) | 0.25<br>(6.4)  |
| 450 – 600     | 4             | 4.47<br>(114)             | 2.00<br>(50.8) | 2.22<br>(56.4) | 3.53<br>(89.7)  | 2.91<br>(73.9)  | 0.41<br>(10.4) | 1.50<br>(38.1) | 0.25<br>(6.4)  |
| 700 – 800     | 4             | 6.47<br>(164.3)           | 2.50<br>(63.5) | 2.22<br>(56.4) | 5.00<br>(127.0) | 3.44<br>(87.3)  | 0.53<br>(13.5) | 1.50<br>(38.1) | 0.25<br>(6.4)  |
| 900 – 1200    | 4             | 6.97<br>(177.0)           | 3.00<br>(76.2) | 3.22<br>(81.8) | 5.47<br>(138.9) | 4.47<br>(113.5) | 0.63<br>(15.9) | 2.38<br>(60.3) | 0.44<br>(11.1) |

Contact Littelfuse for characteristic curves.

## ALTERNATE DIMENSION SEMICONDUCTOR FUSES

600 VAC/DC • Very Fast-Acting • 5-40 Amperes



### LA60Q Series Semiconductor Fuses

| AMPERE RATING | LITTELFUSE CATALOG NUMBER | MOUNTING TYPE | MAXIMUM CLEARING I <sup>2</sup> T @600 VAC (A <sup>2</sup> S x 10 <sup>3</sup> ) | WATTS LOSS @ RATED CURRENT (W) |
|---------------|---------------------------|---------------|----------------------------------------------------------------------------------|--------------------------------|
| 5             | LA60Q5-2                  | 2             | 60                                                                               | 0.7                            |
| 8             | LA60Q8-2                  | 2             | 70                                                                               | 1.1                            |
| 10            | LA60Q10-2                 | 2             | 110                                                                              | 1.6                            |
| 12            | LA60Q12-2                 | 2             | 150                                                                              | 2                              |
| 15            | LA60Q15-2                 | 2             | 180                                                                              | 3                              |
| 20            | LA60Q20-2                 | 2             | 330                                                                              | 4.4                            |
| 25            | LA60Q25-2                 | 2             | 440                                                                              | 5.5                            |
| 30            | LA60Q30-2                 | 2             | 860                                                                              | 5.6                            |
| 35            | LA60Q35-2                 | 2             | 1300                                                                             | 6.4                            |
| 40            | LA60Q40-2                 | 2             | 1800                                                                             | 7                              |

### Specifications

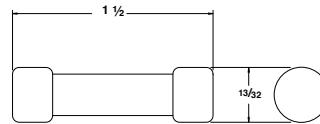
|                             |                          |
|-----------------------------|--------------------------|
| <b>Voltage Rating:</b>      | AC: 600 V<br>DC: 600 V   |
| <b>Interrupting Rating:</b> | AC: 200 kA<br>DC: 100 kA |
| <b>Ampere Range:</b>        | 5 – 40 A                 |
| <b>Approvals:</b>           | UL Recognized            |

Contact Littelfuse for characteristic curves.

### Description

Littelfuse LA60Q semiconductor protection fuses feature a 600 volt AC/DC rating in a compact size (1 1/2" x 13/32"). LA60Q also has the lowest I<sup>2</sup>t of all similar fuses and excellent cycling ability. Applications include inverters and small equipment requiring extremely fast response to faults, without the need to carry sustained heavy overloads.

### Dimensions in inches



### Web Resources

TC Curves, downloadable CAD drawings and other technical information: [www.littelfuse.com/la60qs](http://www.littelfuse.com/la60qs)

690 VAC/700 VDC • Very Fast-Acting • 10-100 Amperes



### LA70QS Series French Cylindrical Fuses

| AMPERE RATING | LITTELFUSE CATALOG NUMBER (NO STRIKER) | LITTELFUSE CATALOG NUMBER (WITH STRIKER) | BODY SIZE | MAXIMUM CLEARING I <sup>2</sup> T @700 VAC (A <sup>2</sup> S x 10 <sup>3</sup> ) | WATTS LOSS @ RATED CURRENT (W) |
|---------------|----------------------------------------|------------------------------------------|-----------|----------------------------------------------------------------------------------|--------------------------------|
| 10            | LA70QS10-14F                           | LA70QS10-14FI                            | 14 x 51   | 0.04                                                                             | 3.5                            |
| 12            | LA70QS12-14F                           | LA70QS12-14FI                            | 14 x 51   | 0.06                                                                             | 4.4                            |
| 16            | LA70QS16-14F                           | LA70QS16-14FI                            | 14 x 51   | 0.10                                                                             | 4.8                            |
| 20            | LA70QS20-14F                           | LA70QS20-14FI                            | 14 x 51   | 0.16                                                                             | 5.2                            |
| 25            | LA70QS25-14F                           | LA70QS25-14FI                            | 14 x 51   | 0.27                                                                             | 5.8                            |
| 32            | LA70QS32-14F                           | LA70QS32-14FI                            | 14 x 51   | 1.50                                                                             | 7.0                            |
| 40            | LA70QS40-14F                           | LA70QS40-14FI                            | 14 x 51   | 0.70                                                                             | 10.7                           |
| 50            | LA70QS50-14F                           | LA70QS50-14FI                            | 14 x 51   | 1.50                                                                             | 11.6                           |
| 20            | LA70QS20-22F                           | LA70QS20-22FI                            | 22 x 58   | 0.076                                                                            | 8.0                            |
| 25            | LA70QS25-22F                           | LA70QS25-22FI                            | 22 x 58   | 0.125                                                                            | 10.0                           |
| 32            | LA70QS32-22F                           | LA70QS32-22FI                            | 22 x 58   | 0.27                                                                             | 11.0                           |
| 40            | LA70QS40-22F                           | LA70QS40-22FI                            | 22 x 58   | 0.48                                                                             | 13.0                           |
| 50            | LA70QS50-22F                           | LA70QS50-22FI                            | 22 x 58   | 0.80                                                                             | 14.9                           |
| 63            | LA70QS63-22F                           | LA70QS63-22FI                            | 22 x 58   | 1.85                                                                             | 16.0                           |
| 80            | LA70QS80-22F                           | LA70QS80-22FI                            | 22 x 58   | 3.80                                                                             | 17.8                           |
| 100           | LA70QS100-22F                          | LA70QS100-22FI                           | 22 x 58   | 8.00                                                                             | 19.0                           |

### Recommended Fuseholders

CYH series for non-striker fuses LA70QS(amp)22F .. pg. 173  
CYH1451 series for LA70QS(amp)14F ..... pg. 173

### Description

Littelfuse LA70QS semiconductor fuses were developed to provide improved performance required by today's new equipment. The LA70QS features lower I<sup>2</sup>t, improved cycling, and lower watts loss. It is the best choice for the protection of dynamic solid-state equipment.

### Dimensions in inches (mm)

Please see website for dimensions:

[www.littelfuse.com/la70qs](http://www.littelfuse.com/la70qs)

### Specifications

|                             |                                |
|-----------------------------|--------------------------------|
| <b>Voltage Rating:</b>      | AC: 690 V<br>DC: 700 V         |
| <b>Interrupting Rating:</b> | AC: 200 kA<br>DC: 100 kA       |
| <b>Ampere Range:</b>        | 10 – 100 A                     |
| <b>Approvals:</b>           | UL Recognized<br>CSA Certified |

### Web Resources

TC Curves, downloadable CAD drawings and other technical information: [www.littelfuse.com/la70qs](http://www.littelfuse.com/la70qs)

# ALTERNATE DIMENSION SEMICONDUCTOR FUSES

700 VAC/VDC • Very Fast-Acting • 35-800 Amperes



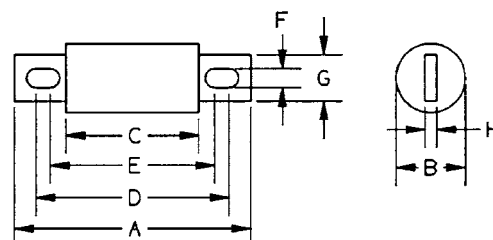
## LA70QS Series Semiconductor Fuses

| AMPERE RATING | LITTELFUSE CATALOG NUMBER | MOUNTING TYPE | MAXIMUM CLEARING I <sup>2</sup> T @700 VAC (A <sup>2</sup> S X 10 <sup>3</sup> ) | WATTS LOSS @ RATED CURRENT (W) |
|---------------|---------------------------|---------------|----------------------------------------------------------------------------------|--------------------------------|
| 35            | LA70QS35-4                | 4             | 0.47                                                                             | 6.2                            |
| 40            | LA70QS40-4                | 4             | 0.58                                                                             | 7.5                            |
| 50            | LA70QS50-4                | 4             | 0.88                                                                             | 9.8                            |
| 60            | LA70QS60-4                | 4             | 1.2                                                                              | 12                             |
| 70            | LA70QS70-4                | 4             | 1.8                                                                              | 15                             |
| 80            | LA70QS80-4                | 4             | 2.3                                                                              | 16                             |
| 90            | LA70QS90-4                | 4             | 3                                                                                | 20                             |
| 100           | LA70QS100-4               | 4             | 3.6                                                                              | 24                             |
| 125           | LA70QS125-4               | 4             | 6.9                                                                              | 22                             |
| 125           | LA70QS125-4K              | 4K            | 6.9                                                                              | 22                             |
| 150           | LA70QS150-4               | 4             | 11                                                                               | 28                             |
| 150           | LA70QS150-4K              | 4K            | 11                                                                               | 29                             |
| 175           | LA70QS175-4               | 4             | 14                                                                               | 35                             |
| 175           | LA70QS175-4K              | 4K            | 14                                                                               | 35                             |

| AMPERE RATING | LITTELFUSE CATALOG NUMBER | MOUNTING TYPE | MAXIMUM CLEARING I <sup>2</sup> T @700 VAC (A <sup>2</sup> S X 10 <sup>3</sup> ) | WATTS LOSS @ RATED CURRENT (W) |
|---------------|---------------------------|---------------|----------------------------------------------------------------------------------|--------------------------------|
| 200           | LA70QS200-4               | 4             | 19                                                                               | 41                             |
| 200           | LA70QS200-4K              | 4             | 19                                                                               | 41                             |
| 250           | LA70QS250-4               | 4             | 42                                                                               | 42                             |
| 300           | LA70QS300-4               | 4             | 55                                                                               | 53                             |
| 350           | LA70QS350-4               | 4             | 72                                                                               | 64                             |
| 400           | LA70QS400-4               | 4             | 99                                                                               | 75                             |
| 450           | LA70QS450-4               | 4             | 125                                                                              | 75                             |
| 450           | LA70QS450-4K              | 4K            | 125                                                                              | 75                             |
| 500           | LA70QS500-4               | 4             | 150                                                                              | 92                             |
| 500           | LA70QS500-4K              | 4K            | 160                                                                              | 92                             |
| 600           | LA70QS600-4               | 4             | 222                                                                              | 116                            |
| 600           | LA70QS600-4K              | 4K            | 222                                                                              | 116                            |
| 700           | LA70QS700-4               | 4             | 332                                                                              | 125                            |
| 800           | LA70QS800-4               | 4             | 433                                                                              | 143                            |

## Specifications

|                             |                                |
|-----------------------------|--------------------------------|
| <b>Voltage Rating:</b>      | AC: 700 V<br>DC: 700 V         |
| <b>Interrupting Rating:</b> | AC: 200 kA<br>DC: 100 kA       |
| <b>Ampere Range:</b>        | 35 – 800 A                     |
| <b>Approvals:</b>           | UL Recognized<br>CSA Certified |



## Web Resources

TC Curves, downloadable CAD drawings and other technical information: [www.littelfuse.com/la70qs](http://www.littelfuse.com/la70qs)

## Dimensions in inches (mm)

Dimensions for reference only.

| AMPERES   | MOUNTING TYPE | DIMENSIONS IN INCHES (mm) |                |                |                |                |                |                |               |
|-----------|---------------|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
|           |               | A                         | B              | C              | D              | E              | F              | G              | H             |
| 35 – 100  | 4             | 4.38<br>(111)             | 1.00<br>(25.4) | 2.88<br>(73)   | 3.69<br>(93.6) | 3.50<br>(88.9) | 0.31<br>(7.9)  | 0.75<br>(19.0) | 0.13<br>(3.2) |
| 125 – 200 | 4             | 4.38<br>(111)             | 1.22<br>(31.0) | 2.88<br>(73)   | 3.69<br>(93.6) | 3.56<br>(90.5) | 0.31<br>(7.9)  | 1.00<br>(25.4) | 0.19<br>(4.8) |
| 125 – 200 | 4K            | 5.09<br>(129)             | 1.22<br>(31.0) | 2.88<br>(73)   | 4.19<br>(106)  | 3.50<br>(88)   | 0.41<br>(10.3) | 1.00<br>(25.4) | 0.19<br>(4.8) |
| 225 – 400 | 4             | 5.09<br>(129)             | 1.50<br>(38.1) | 2.84<br>(72.2) | 4.16<br>(106)  | 3.53<br>(89.7) | 0.40<br>(10.3) | 1.50<br>(38.1) | 0.25<br>(6.4) |
| 450 – 600 | 4             | 5.09<br>(129)             | 2.00<br>(50.8) | 2.84<br>(72.2) | 4.16<br>(106)  | 3.53<br>(89.7) | 0.41<br>(10.3) | 1.50<br>(38.1) | 0.25<br>(6.4) |
| 450 – 600 | 4K            | 7.09<br>(180)             | 2.00<br>(50.8) | 2.84<br>(72.2) | 6.16<br>(156)  | 3.53<br>(89.7) | 0.53<br>(13.5) | 1.50<br>(38.1) | 0.25<br>(6.4) |
| 700 – 800 | 4             | 7.09<br>(180)             | 2.50<br>(63.5) | 2.84<br>(72.2) | 5.28<br>(134)  | 4.91<br>(125)  | 0.53<br>(13.5) | 2.00<br>(50.8) | 0.38<br>(9.5) |

Contact Littelfuse for characteristic curves.

# ALTERNATE DIMENSION SEMICONDUCTOR FUSES

1000 VAC • Very Fast-Acting • 15 – 1000 Amperes

| AMPERE RATING | LITTELFUSE CATALOG NUMBER | MOUNTING TYPE | MAXIMUM CLEARING I <sup>2</sup> T @1000 VAC (A <sup>2</sup> S X 10 <sup>3</sup> ) | WATTS LOSS @ RATED CURRENT (W) |
|---------------|---------------------------|---------------|-----------------------------------------------------------------------------------|--------------------------------|
| 15            | LA100P15-1                | 1             | 0.6                                                                               | 3.4                            |
| 20            | LA100P20-1                | 1             | 0.8                                                                               | 5.9                            |
| 25            | LA100P25-1                | 1             | 1.3                                                                               | 9                              |
| 30            | LA100P30-1                | 1             | 1.5                                                                               | 12.8                           |
| 35            | LA100P35-4                | 4             | 2.2                                                                               | 7.3                            |
| 40            | LA100P40-4                | 4             | 2.9                                                                               | 8.3                            |
| 50            | LA100P50-4                | 4             | 4.5                                                                               | 11                             |
| 60            | LA100P60-4                | 4             | 6.5                                                                               | 13                             |
| 80            | LA100P80-4                | 4             | 12                                                                                | 14                             |
| 100           | LA100P100-4               | 4             | 18                                                                                | 18                             |
| 125           | LA100P125-4               | 4             | 28                                                                                | 23                             |
| 150           | LA100P150-4               | 4             | 41                                                                                | 28                             |
| 200           | LA100P200-4               | 4             | 72                                                                                | 36                             |
| 225           | LA100P225-4               | 4             | 91                                                                                | 40                             |
| 250           | LA100P250-4               | 4             | 110                                                                               | 46                             |
| 300           | LA100P300-4               | 4             | 160                                                                               | 55                             |
| 350           | LA100P350-4               | 4             | 220                                                                               | 65                             |
| 400           | LA100P400-4               | 4             | 290                                                                               | 70                             |
| 500           | LA100P500-4               | 4             | 450                                                                               | 90                             |
| 600           | LA100P600-4               | 4             | 650                                                                               | 110                            |
| 650           | LA100P650-4               | 4             | 780                                                                               | 120                            |
| 700           | LA100P700-4               | 4             | 880                                                                               | 125                            |
| 800           | LA100P800-4               | 4             | 1200                                                                              | 140                            |
| 1000          | LA100P1000-4              | 4             | 1900                                                                              | 190                            |

Figure 1

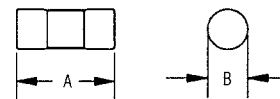


Figure 2

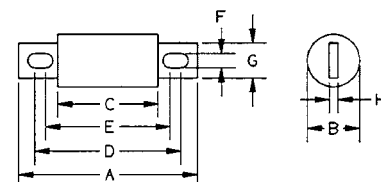


Figure 3

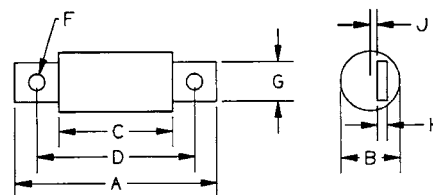
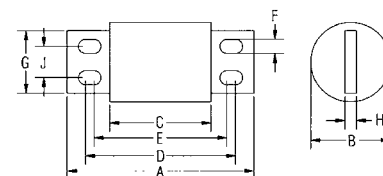


Figure 4



## Web Resources

TC Curves, downloadable CAD drawings and other technical information: [www.littelfuse.com/la100p](http://www.littelfuse.com/la100p)

## Specifications

|                             |                         |
|-----------------------------|-------------------------|
| <b>Voltage Rating:</b>      | AC: 1000 V<br>DC: 750 V |
| <b>Interrupting Rating:</b> | 100 kA                  |
| <b>Ampere Range:</b>        | 15 – 1000 A             |
| <b>Approvals:</b>           | UL Recognized           |

## Dimensions in inches (mm)

| AMPERES   | MOUNTING TYPE | FIGURE NO. | DIMENSIONS IN INCHES (mm) |                |                |               |               |                |                |                |                |
|-----------|---------------|------------|---------------------------|----------------|----------------|---------------|---------------|----------------|----------------|----------------|----------------|
|           |               |            | A                         | B              | C              | D             | E             | F              | G              | H              | J              |
| 15 – 30   | 1             | 1          | 2.53<br>(66.8)            | 0.56<br>(14.2) | –              | –             | –             | –              | –              | –              | –              |
| 35 – 60   | 4             | 2          | 5.00<br>(127)             | 1.00<br>(25.4) | 3.50<br>(88.9) | 4.31<br>(109) | 4.19<br>(106) | 0.31<br>(7.9)  | 0.75<br>(19.1) | 0.13<br>(3.3)  | –              |
| 65 – 100  | 4             | 2          | 5.00<br>(127)             | 1.22<br>(31)   | 3.50<br>(88.9) | 4.31<br>(109) | 4.19<br>(106) | 0.31<br>(7.9)  | 1.00<br>(25.4) | 0.19<br>(4.8)  | –              |
| 125 – 200 | 4             | 2          | 5.72<br>(145)             | 1.50<br>(38.1) | 3.47<br>(88.1) | 4.78<br>(121) | 4.16<br>(106) | 0.41<br>(10.4) | 1.00<br>(25.4) | 0.25<br>(6.4)  | –              |
| 225 – 400 | 4             | 2          | 5.72<br>(145)             | 2.00<br>(50.8) | 3.47<br>(88.1) | 4.78<br>(121) | 4.16<br>(106) | 0.41<br>(10.4) | 1.50<br>(25.4) | 0.25<br>(6.4)  | –              |
| 500 – 600 | 4             | 2          | 7.72<br>(196)             | 2.50<br>(63.5) | 3.47<br>(88.1) | 5.88<br>(149) | 5.56<br>(147) | 0.53<br>(13.5) | 2.00<br>(50.8) | 0.38<br>(9.7)  | –              |
| 650 – 800 | 4             | 3          | 7.44<br>(189)             | 2.88<br>(73.2) | 3.94<br>(100)  | 5.94<br>(151) | –             | 0.63<br>(16)   | 2.00<br>(50.8) | 0.38<br>(9.7)  | 0.31<br>(7.9)  |
| 1000      | 4             | 4          | 8.22<br>(209)             | 3.50<br>(88.9) | 4.47<br>(114)  | 6.59<br>(167) | 5.84<br>(148) | 0.63<br>(16)   | 2.75<br>(69.9) | 0.50<br>(12.7) | 1.38<br>(35.1) |

Dimensions for reference only.

Contact Littelfuse for characteristic curves.

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